PUBLIC NOTICE

PERMIT APPLICATION: NRS 05.048

APPLICANT: City of Lebanon
200 Castle Heights Avenue North
Lebanon, Tenn. 37087
615-443-2899

LOCATION: Spencer Creek and unnamed tributaries, North and South of Hwy 70, East of Hwy 109, Lebanon, Wilson County starting at 36.2368 °N, -86.3901 °W

WATERSHED DESCRIPTION: This project is located in the Lower Cumberland River watershed (HUC TN05130201). Spencer Creek is assessed as fully supporting its classified surface water uses. The classified uses for Spencer Creek and its tributaries are fish and aquatic life, recreation, livestock watering and wildlife, and irrigation. Spencer Creek has a predominately bedrock and boulder substrate in the lower reaches, a sediment substrate in the upper reaches, and varies from approximately 5 feet wide with highly intermittent flow to 15 feet wide with more sustained flow. The riparian zone surrounding Spencer Creek and its tributaries is highly variable, from dense woody vegetation, to sparse and highly manicured herbaceous vegetation. The surrounding land use is predominately residential.
(Color photos of representative sections of the streams are available on the Internet version of this notice at http://www.state.tn.us/environment/wpc/wpcppo/arap)

PROJECT DESCRIPTION: The purpose of the alterations is to expand sanitary sewer service (gravity based) to two subdivision areas in Lebanon, South Fork and Horn Springs subdivisions. The alignment has a total of 13 stream crossings on Spencer Creek (6), and three unnamed tributaries (A – 1 crossing, B – 4 crossings, C – 2 crossings). The pipes in the crossings range from 16" to 2" in diameter, for both main and service lines.
Rock excavation, when encountered, shall be accomplished by mechanical means such as trenchers, hoe-rams. Blasting will only be allowed on a case-by-case basis in areas of difficult excavation, and then will be limited in scope. All stream crossings will be encased in a minimum of 8" of concrete and the streambed and bank will be returned to original contours. Each side of the crossing will have a concrete trench check dam.
South Fork 1: unnamed tributary A, 16" DIP line, 36.2368 °N, -86.3901 °W
South Fork 2: unnamed tributary B, 12" PVC line, 36.2332 °N, -86.3880 °W
South Fork 3: Spencer Creek, 12" PVC line, 36.2286 °N, -86.3834 °W
South Fork 4: Spencer Creek, 8" PVC line, 36.2282 °N, -86.3821 °W
South Fork 5: Spencer Creek, 10" PVC line, 36.2281 °N, -86.3817 °W
South Fork 6: Spencer Creek, 10" DIP line, 36.2261 °N, -86.3758 °W
South Fork 7 – 9: Spencer Creek, 6" PVC service lines, 2 in each trench, 36.2272 °N, -86.3781 °W
South Fork 10: Spencer Creek, 6" PVC service line 36.2263 °N, -86.3761 °W
Horn Springs 1: unnamed tributary B, 8" PVC line, 36.2337 °N, -86.3855 °W
Horn Springs 2: unnamed tributary C, 8" PVC line 36.2376 °N, -86.3769 °W
Horn Springs 3: unnamed tributary C, 2" force main line, 36.2382 °N, -86.3764 °W
Horn Springs 4 & 5: unnamed tributary B, 8" PVC line 36.2341 °N, -86.3829 °W
Horn Springs 6: unnamed tributary B, 8: PVC line 36.2345 °N, -86.3809 °W
In accordance with the Tennessee Antidegradation Statement (Rule 1200-4-3-.06), the division has determined that the proposed activity will not result in degradation to water quality.

PERMIT COORDINATOR: Juliana W. Kyzar

USGS TOPOGRAPHIC QUADRANGLE: Martha Quad 314 NW

Photo 1: At the unnamed tributary (A), near South Fork Crossing 1.

Photo 2: Spencer Creek in the upper reaches, below location of South Fork Crossings 6 – 10.

Photo 3: Spencer Creek near location of South Fork crossing 3.

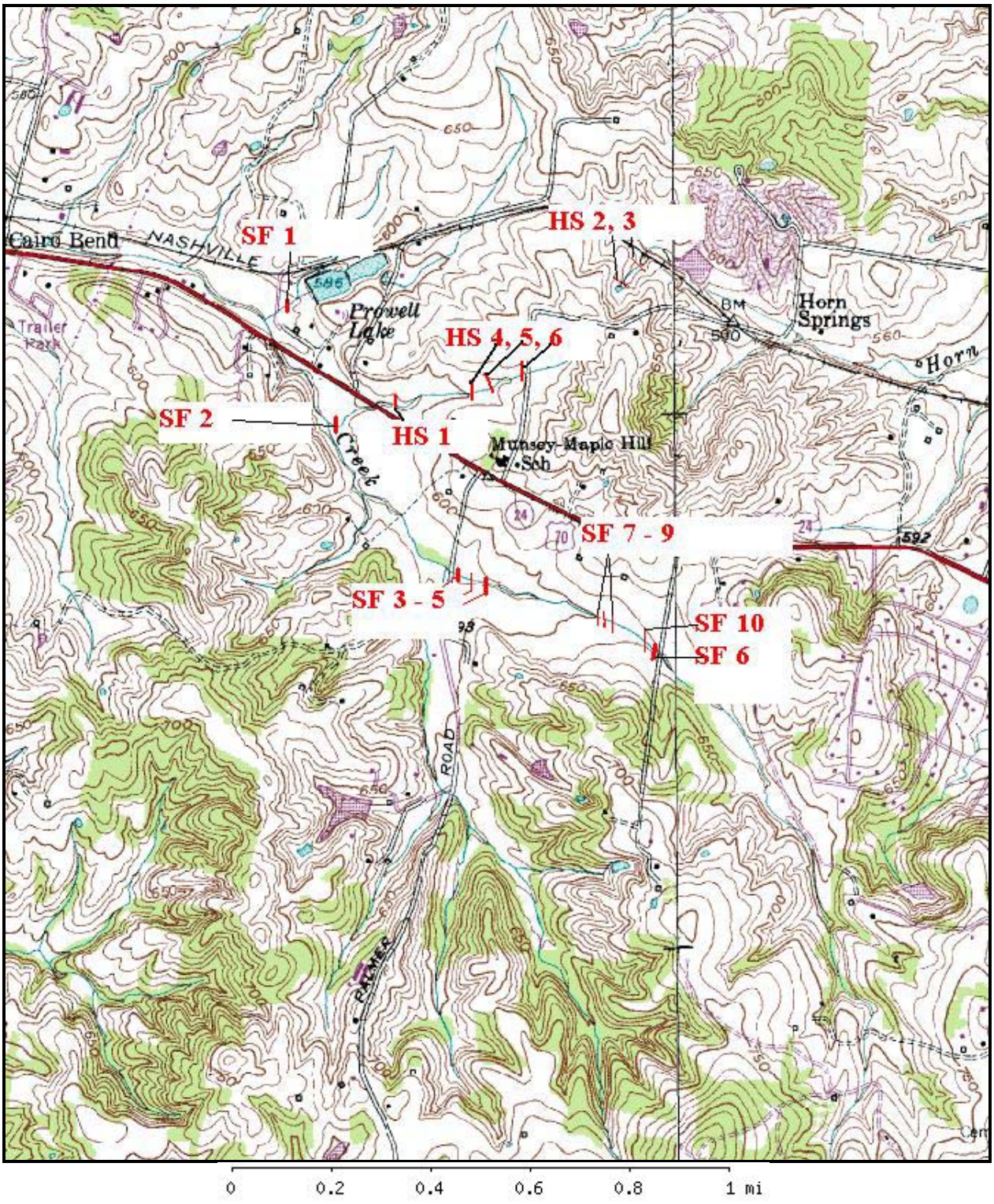

Figure 1: USGS topographic map showing project area and approximate impact locations

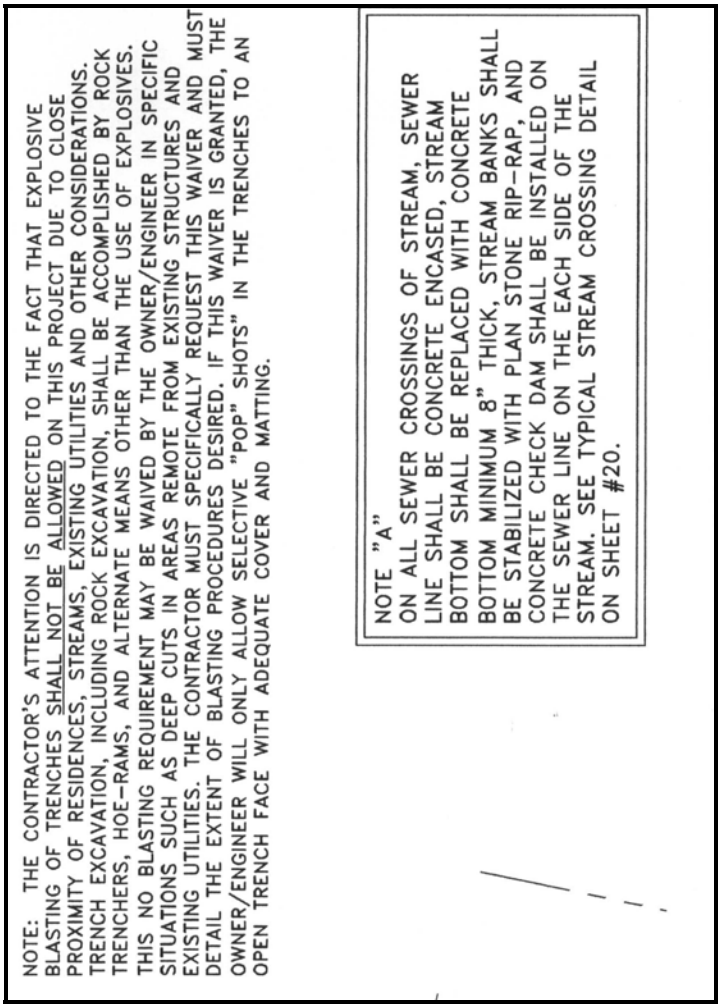

Figure 2: Contractor's notes on constructing stream crossings and the use of blasting.

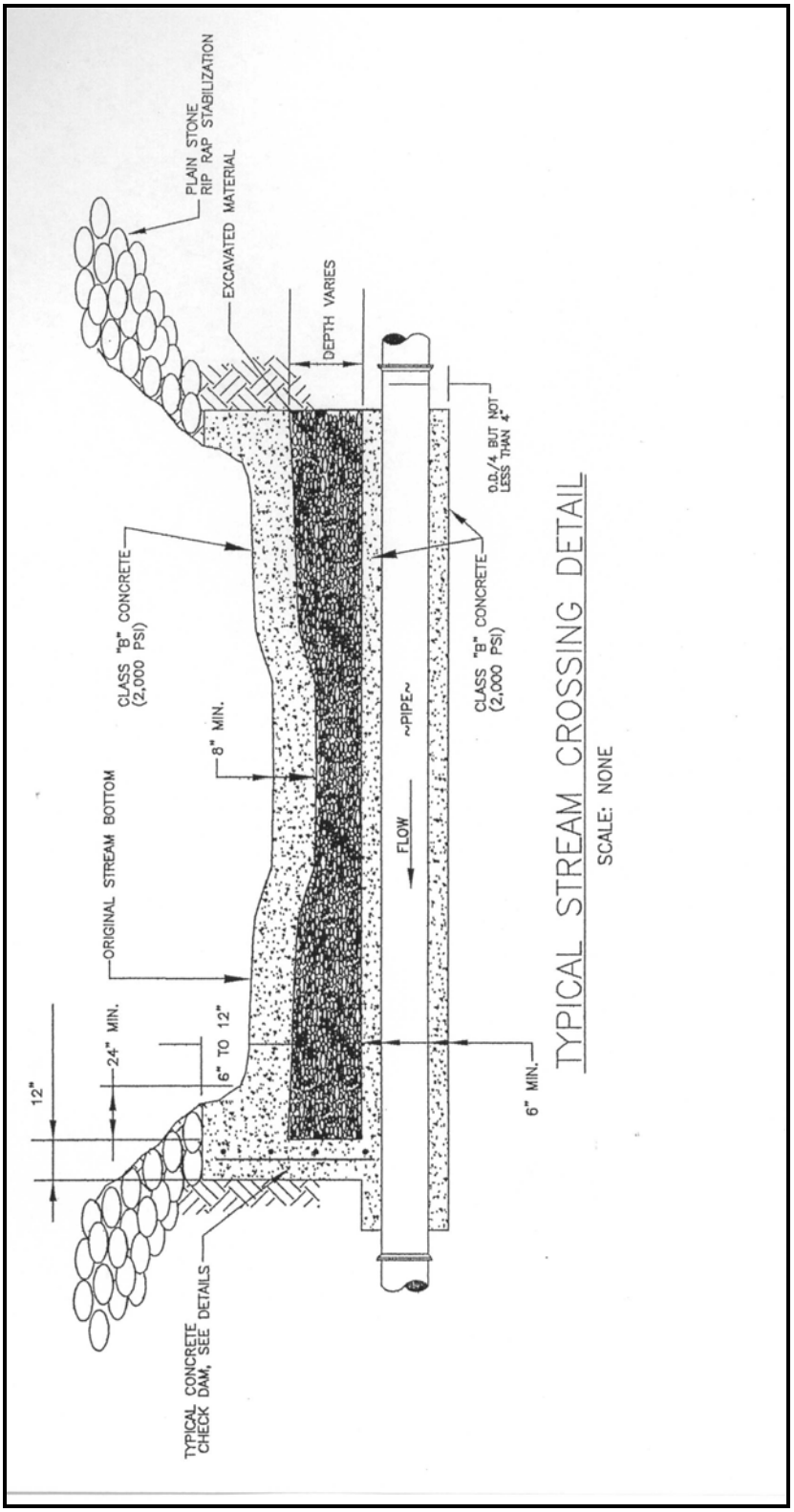

Figure 3: Typical stream crossing detail

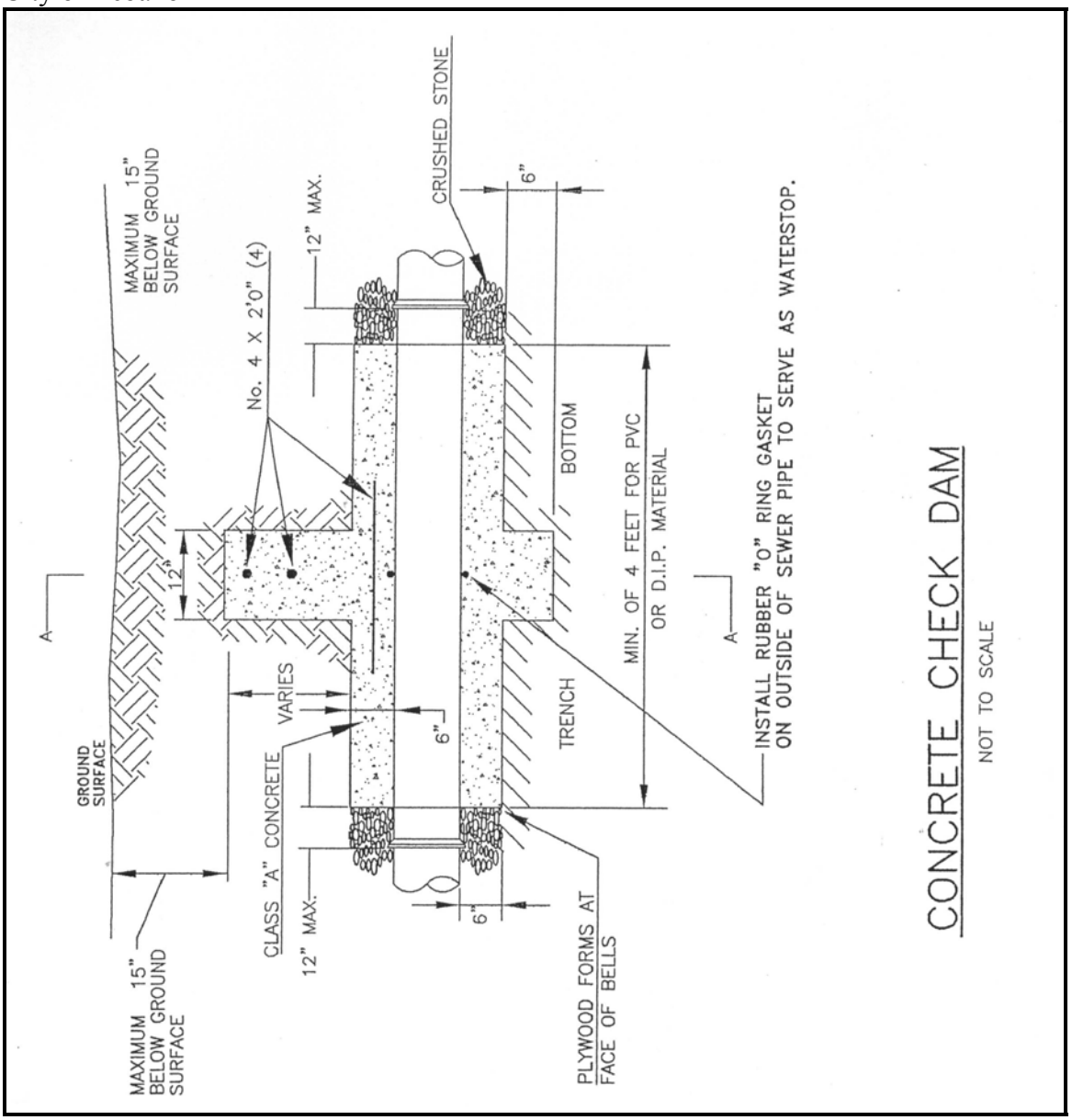

Figure 4: Schematic for typical concrete trench check dam.